



Meeting Minutes Transmittal

**LERF/200 Area ETF and WESF
Project Managers Meeting
825 Jadwin / Room 554
Richland, Washington
February 13, 2014**

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting. Signatures denote concurrence with the content only and are not intended to imply agreement to any commitments.

 Date: 10 April 2014
Project Manager Representative, Ecology

 Date: 27 Mar 2014
Project Manager Representative, RL

LWFS Administrative Record	H6-08
FW Bond	H0-57
MS Collins	A6-38
KA Conaway	H0-57
BJ Dixon	T3-11
RH Engelmann	H8-45
SK Johansen	T1-41
RL Long, Jr.	A5-15
VA Turner	A6-11
LC Petersen	S5-31
PT Saueressig	S5-31
FM Simmons	H8-45

LERF/200 Area ETF and WESF
Project Managers Meeting Minutes
825 Jadwin/Room 554/700 Area
Richland, Washington

February 13, 2014

- I. The December 19, 2013, Project Managers Meeting (PMM) minutes were approved and submitted to Administrative Record. There was no PMM held in January 2014.
- II. Operational Status
- A. Linda Petersen (CHPRC) provided the operational status for the months of December 2013 and January 2014. Dave Watson (CHPRC) was introduced as the new ECO for LERF/200 Area ETF, WESF and the Canister Storage Building (CSB), and will be presenting the operational reports for future PMMs. Ms. Petersen noted that no mixed waste burial trench leachate was received during the two-month period, due to minimal rainfall. Rick Bond (Ecology) inquired about the G cell transfer cart repair. Ms. Petersen explained that the transfer cart has a cable that pulls it up and down, and the cable has been wearing into the edge of the chute that goes down into the pool cell. A modification will be done to prevent the cable from forming a groove in the edge and getting stuck. Ms. Petersen stated that activities are gearing up for the LERF basin cover cleanup. Ms. Petersen added that CHPRC is meeting with MSA to plan the path forward for bird deterrent activities at the LERF basins.

LERF Basin Liquid Level, Inventory and Waste Received – December 2013 & January 2014			
	Basin 42	Basin 43	Basin 44
Basin Liquid Level and Inventory on 2/2/2014	6.0 ft. ~1.23 Mgal	10.1 ft. ~2.39 Mgal	18.8 ft. ~5.93 Mgal
1 tanker shipments of lysimeter wastewater		~300 gallons	
6 tanker shipments of BP-5 perched water		~15,000 gallons	
ERDF transfers		~190,020 gallons	

*The volumes in this table are estimated. Tanker shipment volumes are estimated by multiplying the number of shipments by the capacity of the tanker being used.

Effluent Treatment Facility treated ~ 1.27 Mgal of wastewater December 2013 and January 2014. 200 Area Treated Effluent Disposal Facility (TEDF) received wastewater at an average flow of about 49 gpm during December 2013 and January 2014, based on TEDF Flow Totalizer information.
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LERF/ETF/200 Area TEDF Activities:

- Basin 42 processing campaign paused due to heat exchanger issues
- LERF basin cover cleaning activities are pending (weather allowing)

WESF Activities:

- Repair of G cell transfer cart is pending
- Completion of roof repair (application of non-slip walkway material) to be completed in the spring.

III. Status of Previous Agreements and Commitments

- A. There were no previous agreements or commitments to status.

IV. New Agreements and Commitments

- A. There were no new agreements or commitments identified for discussion.

V. Near Term Schedules and Ongoing Activities (Milestones, TSD Unit)

A. ST-4500, ST-4502 and ST-4511 Status

Stacy Nichols (Ecology) reported that the ST-4500 permit is being prepared for renewal. Ms. Nichols indicated that the intent is to submit a draft to RL sometime in April 2014. Rick Engelmann (CHPRC) noted that the ST-4502 permit was renewed last year and has been operating smoothly. Mr. Engelmann stated that the ST-4511 permit renewal took effect January 1, 2014, and MSA is preparing to update the Best Management Practices Plan, a requirement of the ST4511 permit.

B. LERF Basin Maintenance

Ms. Petersen stated that the plan is to use the geotubes for removing the mud and water on the basin covers. The geotubes look like giant pillows that are filled with water, and the water filters out and the mud stays inside. The basin cover maintenance will resume when the equipment is staged and the weather allows for pumping and mud removal.

C. Hanford Facility RCRA Permit Rev. 9 Update

Mr. Bond stated that efforts continue with developing the conceptual agreement packages (CAPs), which will provide the guidance for Rev. 9. Mr. Bond noted that no updates to Rev. 9 have been done.

D. 8C/Class 2 Modifications

Jennie Seaver (CHPRC) stated that a meeting is scheduled with Ecology next week (2/19/14) to discuss Ecology's comments on the Class 2 modifications. Ms. Seaver added that RL/CHPRC are not planning to prepare a formal comment response, and that the intent is to resolve the comments during the meeting next week. Mr. Bond agreed that the parties should be able to work through the comments during the meeting. Mr. Bond referred to one of the comments about pumping the rainwater from the top of the LERF basins to the ground. Stephanie Johansen (CHPRC) stated that the water is no longer pumped to the ground. Ms. Petersen added that the water used to be pumped to the ground after it was sampled and if it met the criteria. Mr. Bond noted that the discussion in the beginning of Addendum C, Process Information will need to be beefed up to clearly define what it means when ETF is operating, and therefore, when the control room will be manned.

Ms. Seaver stated that the noncompliance issue regarding the flow totalizer will be included in the annual Hanford Facilities RCRA Permit Noncompliance Report, and the report will be issued in February 2014. Ms. Seaver noted that the issue with the totalizer was documented in the PMMs.

Mr. Bond stated that a public meeting was held Tuesday, February 11, 2014, to address two Class 2 permit modifications for LERF/ETF operations and LERF/ETF groundwater monitoring, and that five members of the public attended. Mr. Bond asked if the public meetings are documented. Ms. Seaver stated that there is no TPA requirement to document the public meetings via submittal to the Administrative Record (AR). Lorna Dittmer (CHPRC) stated that there is a section in the AR for documenting meetings that are required by the TPA, and the parties could submit a record of the public meeting in that section. Mr. Bond stated that the public meeting should be documented, and that today's discussion would provide documentation.

E. TEDF Nitrogen Exceedance Summary

Mr. Engelmann noted that this topic was not included on today's agenda, however, Mr. Bond had earlier requested an update on the 200 Area TEDF nitrate exceedance. Ms. Petersen distributed a one-page handout regarding the spike of high nitrate that was reported for 200 Area TEDF in December 2012. Ms. Petersen stated that the monthly TEDF sample pulled in December 2012 from the end of pipe was 20.4 milligrams per liter, which was significantly higher than the ST-4502 permit monthly average of 0.62 mg/L and the daily maximum allowed of 1.24 mg/L. The nitrate spike was reported to Ecology the following day on December 13, 2012, and was followed up with a five-day report on December 17 and a meeting on January 23, 2013.

Ms. Petersen stated that during an investigation, it was determined that the spike was associated with deep well pump testing at WESF. The pumps are located in an aquifer that has a nitrate plume, and the plume has moved into the area where the well draws are complete. Mr. Bond asked where the nitrate plume is coming from. Ms. Petersen responded that the plume comes from historic activities and it is moving slowly towards WESF. Ms. Petersen noted there were several points of discussion during the January 23 meeting with Ecology (see handout). During the January 23 meeting, a decision was made to continue pulling monthly samples until there were two or three pump tests, and then observe whether the nitrate spikes continued.

Ms. Petersen referred to the table in the handout showing the nitrate results since December 2012, and noted that all of the readings are below the ST 4502 daily maximum of 1.24 mg/L and the monthly average of 0.62 mg/L. Ms. Petersen added that the monthly average was 0.154 mg/L. Ms. Petersen stated that the proposed path forward is that no additional follow-up is necessary because all of the nitrate data since December 2012 has been within the permit limits. Mr. Bond agreed that the issue has been addressed, and the parties will continue to watch the levels in the future.

VI. Approved Changes Signed Off in Accordance with TPA Section 12.2

- A. There were no approved changes identified for discussion.

VII. General Discussion

- A. Vanessa Turner (RL) provided an update on milestone M-92-05, which requires a schedule by June 30, 2017, for determining final disposition of the cesium/strontium capsules. Ms. Turner reported that John Price (Ecology) is requesting a schedule for meeting the milestone. Ms. Turner stated that there is money in the budget this fiscal year to create the schedule and path forward and that efforts are under way. Ms. Turner noted that determining final disposition poses a challenge, since no final repository for the capsules has been established. Ms. Turner stated that RL is moving forward with ventilation upgrades, and the intent is to complete the upgrades by fiscal year 2016, which would line up with initiation of the interim dry storage project to get the capsules into dry storage. Ms. Turner stated that the design has the dry storage lasting for 150 years, with no current final repository. Mr. Bond indicated that there will probably be discussion about leaving the capsules in dry storage for 150 years, since there is some opposition within Ecology to leaving the capsules on the Hanford Site.

Mr. Bond asked about the status of major milestone M-92-00. Ms. Dittmer stated that the language in the major milestone is in Ecology legal review and will be provided to EPA. Ms. Dittmer asked Mr. Bond to follow up with Mr. Price on the status of the review. Mr. Bond noted that there is one word in the milestone that needs to be changed to clarify the

intent of the milestone. Mr. Bond referred to the interim milestones under M-92-00 that are due in 2017 (cesium/strontium) and 2019 (sodium), and stated that the language should state that when both interim milestones are completed, a date will be set for the major milestone. Mr. Bond noted that the current language indicates that the date will be set for the major milestone when the 2017 milestone is completed. Ms. Dittmer stated that her impression was the wording had been changed before it was sent to Ecology. Mr. Bond stated that it still had the old wording. Ms. Dittmer requested that Mr. Bond follow up in an email to Ms. Turner, and that she and Ms. Turner would determine whether more discussion was needed.

VIII. Actions

Unit	Description of Action	Status	Date
LERF/200 Area ETF	RL will send Ecology a letter with updated copies of catch basin drawings	Action opened	04/26/12
		A permit change has been proposed to Ecology; follow-up meetings to be scheduled.	10/24/13
		The basin drawing updates will be addressed in the Class 2 mod package. This action is closed.	02/13/14

IX. Documents for Submittal to the Administrative Record

A. The nitrate summary will be attached to today's minutes for submittal to the AR.

X. Next Project Managers Meeting

A. The next PMM was scheduled for April 24, 2014.

TEDF Nitrogen Exceedance Summary

In December 2012, a spike of high nitrate (as N) of 20.4 mg/L was reported for 200 Area TEDF. This exceeded the discharge permit, ST0004502, average monthly nitrate (as N) limit is 0.62 mg/L and the maximum daily limit is 1.24 mg/L. This spike was associated with testing of a deep well pump at the Waste Encapsulation and Storage Facility (WESF) and with the aquifer this deep well pumps from.

This spike was initially reported to Ecology on December 13, 2012 and a 5-day report was provided on December 17, 2012. During a follow-up meeting with Ecology held on January 23, 2013, DOE-RL reported that a nitrate plume in the aquifer has moved southeast into the WESF pump area. This means future pump discharges could show nitrate levels above the TEDF discharge limits.

Additional information discussed at this meeting included:

- For comparison, the DWS and GWQC limit is 10 mg/L for nitrate as N. The groundwater under TEDF is not a drinking water source and does not impact river quality
- The spike is not expected to be a significant contributor to nitrate levels in the aquifer below TEDF.
- The December 2012 deep well test was ~ 4 hours longer than a routine 1-hour test due to unrelated technical issues and occurred when other TEDF flows were minimal. It is expected that the spike caused by routine WESF deep well testing every other month would normally be diluted by other flows before arriving at the TEDF ponds.
- While DOE-RL would like to continue to send this effluent to TEDF, deep well pump testing discharges can be discharged to the ground under ST4511 since the elevated nitrate is due to nitrate levels in the source water.

A decision was made at this meeting to continue for the next two or three pump tests and observe whether the nitrate spike continues. If the spike is still there, DOE-RL/CHPRC will meet with Ecology and negotiate a path forward. If the spike is not there, it will be business as usual. This decision and a summary handout on this topic were included in the January 24, 2013 PMM meeting minutes.

Nitrate Results since December 2012 Exceedance

Date	Nitrate as N (mg/L)		Date	Nitrate as N (mg/L)
14-Dec-12	0.1729		10-Jul-13	0.129
09-Jan-13	0.24		14-Aug-13	0.0787
06-Feb-13	0.287		04-Sep-13	0.104
06-Mar-13	0.191		09-Oct-13	0.133
03-Apr-13	0.151		07-Nov-13	0.116
09-May-13	0.155		10-Dec-13	0.11
06-Jun-13	0.108		08-Jan-14	0.203
10-Jul-13	0.127		average	0.154

Proposed path forward: No additional follow-up is necessary since all nitrate data since December 2012 has been within the permit limits.

**DECEMBER 2013 & JANUARY 2014
WESF/ETF/LERF/200 AREA TEDF OPERATIONS REPORT
FOR THE FEBRUARY 13, 2014 PMM**

LERF Basin Liquid Level, Inventory and Waste Received - Dec. 2013 & Jan. 2014			
	Basin 42	Basin 43	Basin 44
Basin Liquid Level and Inventory on 2/2/2014	6.0 ft. ~1.23 Mgal	10.1 ft. ~2.39 Mgal	18.8 ft. ~5.93 Mgal
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Effluent Treatment Facility treated ~ 1.27 Mgal of wastewater during December 2013 and January 2014.

200 Area Treated Effluent Disposal Facility (TEDF) received wastewater at an average flow of about 49 gpm during December 2013 & January 2014, based on TEDF Flow Totalizer information.

LERF/ETF/200 AREA TEDF ACTIVITIES:

- Basin 42 processing campaign paused due to heat exchanger issues
- LERF basin cover cleaning activities are pending (weather allowing)

WESF ACTIVITIES:

- Repair of G cell transfer cart is pending
- Completion of roof repair (application of non-slip walkway material) to be completed in the spring

LERF/200 AREA, ETF, AND WESF
Project Managers Meeting
825 Jadwin / Room 554
Hanford, Washington

February 13, 2014
ATTENDANCE LIST

Name	Organization	Phone Number
1. Kathy Kux	Kux Court Reporting	946-5535
2. Stephanie Johansen	CHPRC	373-1031
3. Rick Engelmann	CHPRC	376-7485
4. Bren Dixon	CHPRC	376-7053
5. Jennie Seever	CHRC	
6. Michael Collins	DOE	376-6536
7. Joel Williams Jr.	CHPRC	376-4782
8. Rick Bond	Ecology	372-7885
9. Stacy Nichols	Ecology	372-7917
10. Linda Petersen	CHPRC	373-4200
11. David Watson	CHPRC	373-3250
12. Lorna Dittmer	CHPRC	376-7017
13. Vanessa Turner	DOE-RC	376-5503
14. J. Cawtse	CHPRC	376-3143
15. Steve Lowe	Ecology	372-7894
16. S. Badboda	CHPRC	373-9792
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LERF/200 AREA ETF and WESF PROJECT MANAGERS MEETING
825 Jadwin / Room 554
Hanford, Washington
February 13, 2014

9:00 a.m. to 9:30 a.m.

Agenda

- XI. The October 24, 2013, Project Managers Meeting (PMM) Minutes were approved by RL and Ecology and submitted to Administrative Record. The December 19, 2013, Project Managers Meeting (PMM) Minutes are pending RL and Ecology representative approvals. There was no PMM held in January 2014.
- I. Operational Status
- II. Status of Previous Agreements and Commitments
- III. New Agreements and Commitments
- IV. Near Term Schedules and Ongoing Activities (Milestones, TSD Unit)
- A. ST-4500, ST-4502 and ST-4511 status
 - B. LERF Basin Maintenance
 - C. HF RCRA Permit Rev. 9 Update
 - D. 8C/Class 2 Mods
- V. Approved Changes Signed Off in Accordance with TPA Section 12.2
- VI. General Discussion
- VII. Actions
- | Unit | Description of Action | Status | Date |
|-------------------|--|---|----------|
| LERF/200 Area ETF | RL will send Ecology a letter with updated copies of catch basin drawings. | Action opened. | 4/26/12 |
| | | Jennie Seaver (CHPRC) is following up on this action. | 3/28/13 |
| | | CHPRC in the process of addressing this action. | 5/23/13 |
| | | No status was provided. | 8/22/13 |
| | | A permit change has been proposed to Ecology; follow-up meetings to be scheduled. | 10/24/13 |
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- VIII. Documents for Submittal to the Administrative Record
- IX. Next Project Managers Meeting